Bruhat Bangalore Mahanagara Palike

Modified Estimate for Developments of Roads andDrains at PDMS Premises (Police Driving and Maintenance School) in ward no - 01 of Yelahanka Sub Division -

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	Removing and refixing stone slabs of drains and pointing in CM 1:3 P No-27 I No-5.33 KPWD SR 2018-19								
	Approved Rate	116.80							
	Drain Slabs (Sides)	**Sqm**							
	Main Road LHS								
	CH: 00.00 to 30.00		2	30	0.5		30.00		
	CH: 30.00 to 60.000		2	30	0.5		30.00		
	CH: 60.00to 90.00		2	30	0.5		30.00		
	CH: 330.00 to 360.00		2	30	0.7		42.00		
	CH:360.00to 390.00		2	30	0.5		30.00		
	CH: 390.00 to 420.00		2	30	0.5		30.00		
	Main Road RHS								
	CH: 00.00 to 30.00		2	30	0.5		30.00		
	CH: 30.00 to 60.000		2	30	0.7		42.00		
	CH: 60.00to 90.00		2	30	0.5		30.00		
	CH: 210.00 to 240.00		2	30	0.45		27.00		
	CH:360.00to 390.00		2	30	0.5		30.00		
	CH: 390.00 to 420.00		2	30	0.5		30.00		
	CH: 420.00 to 450.00		2	30	0.5		30.00		
	CH: 450.00to 480.00		2	30	0.5		30.00		
	CH: 540.00 to 570.00		2	30	0.5		30.00		
	CH: 570.00 to 600.00		2	30	0.5		30.00		
	First Left LHS Drain (Sides)								
	CH: 00.00 to 30.00		2	30	0.5		30.00		
	CH: 30.00 to 60.000		2	30	0.5		30.00		
	CH: 60.00to 68.50		2	8.5	0.5		8.50		
	Second Left LHS Drain (Sides)								
	CH: 00.00 to 30.00		2	30	0.5		30.00		
	CH: 30.00 to 45.70		2	15.7	0.5		15.70		
	CH: 45.70 to 51.60		2	5.9	0.5		5.90		
	CH: 51.60 to 70.80		2	19.2	0.5		19.20		
	Second Left RHS Drain (Sides)								
	CH: 00.00 to 18.70		2	18.7	0.5		18.70		
	CH: 18.70 to 44.50		2	25.8	0.5		25.80		
	CH: 71.00 to 76.30		2	5.3	0.5		5.30		
	CH: 76.30 to 96.60		2	20.3	0.5		20.30		
							710.40	116.80	82974.72
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-144)								
	Approved Rate	231.31							
		Cum							
	Drain Desilting								
	Main Road LHS								
	CH: 00.00 to 30.00		1	30	0.5	0.15	2.25		
	CH: 30.00 to 60.000		1	30	0.5	0.15	2.25		
	CH: 60.00to 90.00		1	30	0.5	0.25	3.75		
	CH: 90.00 to 120.00		1	30	0.5	0.25	3.75		
	CH: 120.00 to 150.00		1	30	0.5	0.2	3.00		

	CH: 150.00 to 180.00		1	30	0.5	0.25	3.75		
	CH: 180.00 to 210.00		1	30	0.5	0.25	3.75		
	CH: 210.00 to 240.00		1	30	0.5	0.25	3.75		
	CH: 240.00 to 270.00		1	30	0.5	0.15	2.25		
	CH: 270.00 to 300.00		1	30	0.5	0.25	3.75		
	CH: 300.00 to 330.00		1	30	0.5	0.25	3.75		
	CH: 330.00 to 360.00		1	30	0.5	0.25	3.75		
	CH:360.00to 390.00		1	30	0.5	0.25	3.75		
	CH: 390.00 to 420.00		1	30	0.5	0.25	3.75		
	CH: 420.00 to 450.00		1	30	0.5	0.25	3.75		
	CH: 450.00to 480.00		1	30	0.5	0.25	3.75		
	CH: 480.00 to 510.00		1	30	0.5	0.3	4.50		
	CH: 510.00 to 540.00		1	30	0.5	0.3	4.50		
	CH: 540.00 to 570.00		1	30	0.5	0.3	4.50		
	Main Road RHS								
	CH: 00.00 to 30.00		1	30	0.5	0.15	2.25		
	CH: 30.00 to 60.000		1	30	0.5	0.25	3.75		
	CH: 60.00to 90.00		1	30	0.5	0.25	3.75		
	CH: 90.00 to 120.00		1	30	0.5	0.25	3.75		
	CH: 120.00 to 150.00		1	30	0.5	0.25	3.75		
	CH: 150.00 to 180.00		1	30	0.5	0.15	2.25		
	CH: 180.00 to 210.00		1	30	0.5	0.25	3.75		
	CH: 210.00 to 240.00		1	30	0.5	0.25	3.75		
	CH: 240.00 to 270.00		1	30	0.5	0.15	2.25		
	CH: 270.00 to 300.00		1	30	0.5	0.25	3.75		
	CH: 300.00 to 330.00		1	30	0.5	0.25	3.75		
	CH: 330.00 to 360.00		1	30	0.5	0.15	2.25		
	CH:360.00to 390.00		1	30	0.5	0.2	3.00		
	CH: 390.00 to 420.00		1	30	0.5	0.25	3.75		
	CH: 420.00 to 450.00		1	30	0.5	0.2	3.00		
	CH: 450.00to 480.00		1	30	0.5	0.25	3.75		
	CH: 480.00 to 510.00		1	30	0.5	0.25	3.75		
	CH: 510.00 to 540.00		1	30	0.5	0.3	4.50		
	CH: 540.00 to 570.00		1	30	0.5	0.3	4.50		
	CH: 570.00 to 600.00		1	30	0.5	0.3	4.50		
	First Left LHS Drain Desilt								
	CH: 00.00 to 30.00		1	30	0.5	0.25	3.75		
	CH: 30.00 to 60.000		1	30	0.5	0.15	2.25		
	CH: 60.00to 68.50		1	8.5	0.5	0.25	1.06		
	First Left RHS Drain Desilt								
	CH: 00.00 to 30.00		1	30	0.5	0.15	2.25		
	CH: 30.00 to 60.000		1	30	0.5	0.15	2.25		
	CH: 60.00to 73.30		1	13.3	0.5	0.25	1.66		
	Second Left LHS Drain								
	CH: 00.00 to 30.00		1	30	0.5	0.15	2.25		
	CH: 30.00 to 45.70		1	15.7	0.5	0.15	1.18		
	CH: 45.70 to 51.60		0	5.9	0.5	0.2	0.00		
	CH: 51.60 to 70.80		1	19.2	0.5	0.25	2.40		
	CH: 70.80 to 74.50		0	3.7	0.5	0.25	0.00		
	CH: 74.50 to 94.00		1	19.5	0.5	0.3	2.93		
	Second Left RHS Drain								

	CH: 00.00 to 18.70		1	18.7	0.5	0.15	1.40		
	CH: 18.70 to 44.50		0	25.8	0.5	0.2	0.00		
	CH: 44.50 to 55.50		1	11	0.5	0.2	1.10		
	CH: 55.50 to 62.00		0	6.45	0.5	0.25	0.00		
	CH: 62.0 to 71.00		1	9	0.5	0.3	1.35		
	CH: 71.00 to 76.30		0	5.3	0.5	0.3	0.00		
	CH: 76.30 to 96.60		1	20.3	0.5	0.3	3.05		
							166.88	231.31	38600
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar 1:6 including fixing curing etc complete. P.No 27, I No.5.31.1 of PW, P&IWTD SR 2018-19								
	Approved Rate	778.73							
	Drain Slabs								
	Main Road LHS (Sides)								
	CH: 270.00 to 300.00	0	2	30	0.5		30.00		
	CH: 450.00to 480.00	0	2	30	0.5		30.00		
	Main Road RHS								
	CH: 120.00 to 150.00	0	2	30	0.65		39.00		
	CH: 150.00 to 180.00	0	2	30	0.5		30.00		
	CH: 270.00 to 300.00	0	2	30	0.5		30.00		
	First Left LHS Drain (Sides)								
	CH: 60.00to 68.50	2	2	8.5	0.5		8.50		
	Second Left LHS Drain (Sides)								
	CH: 45.70 to 51.60	2	2	5.9	0.7		8.26		
					Present Qty		175.76	778.73	136869.58
4	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Approved Rate	6031.81							
	KERB PCC	Cum							
	Main road LHS								
	CH: 00.00 to 30.00		1	30	0.2	0.1	0.60		
	CH: 30.00 to 60.000		1	30	0.2	0.1	0.60		
	CH: 60.00to 90.00		1	30	0.2	0.1	0.60		
	CH: 90.00 to 120.00		1	30	0.2	0.1	0.60		
	CH: 120.00 to 150.00		1	30	0.2	0.1	0.60		
	CH: 150.00 to 180.00		1	30	0.2	0.1	0.60		
	CH: 180.00 to 210.00		1	30	0.2	0.1	0.60		
	CH: 210.00 to 240.00		1	30	0.2	0.1	0.60		
	CH: 240.00 to 245.10		1	5.1	0.2	0.1	0.10		
	CH: 245.10 to 250.40		0	5.3	0	0	0.00		
	CH: 250.4 to 275.20		1	24.8	0.2	0.1	0.50		
	CH: 275.2 to 280.60		0	5.4	0	0	0.00		
	CH: 280.6 to 298.60		1	18	0.2	0.1	0.36		
	CH: 298.6 to 309.50		0	10.9	0	0	0.00		
	CH: 309.5 to 339.50		1	30	0.2	0.1	0.60		
	CH: 339.5to 348.00		1	8.6	0.2	0.1	0.17		
	CH: 348.00 to 349.30		0	1.3	0	0	0.00		
	CH: 349.30 to 379.30		1	30	0.2	0.1	0.60		

	CH: 379.30 to 405.00		1	25.7	0.2	0.1	0.51		
	CH: 405.00to 415.50		0	10.5	0	0	0.00		
	CH: 415.5 to 444.30		1	28.8	0.2	0.1	0.58		
	CH: 444.3 to 453.90		0	9.6	0	0	0.00		
	CH: 453.90 to 483.90		1	30	0.2	0.1	0.60		
	CH: 483.9 to 489.40		1	5.5	0.2	0.1	0.11		
	CH: 489.4 to 494.50		0	5.1	0	0	0.00		
	CH: 494.5 to 512.50		1	18.1	0.2	0.1	0.36		
	CH: 512.5 to 520.10		0	7.6	0	0	0.00		
	CH: 520.1 to 550.10		1	30	0.2	0.1	0.60		
	CH: 550.1 to 560.10		1	10	0.2	0.1	0.20		
	CH: 560.1to 565.70		0	15.6	0	0	0.00		
	CH: 565.7 to 584.6		1	18.9	0.2	0.1	0.38		
	Deduct for Shounder Drains	(48*.2)	-1	9.6	0.2	0.1	-0.19		
	Main road RHS								
	CH: 00.00 to 10.7		1	10.5	0.2	0.1	0.21		
	CH: 10.70 to 12.30		0	1.6	0	0	0.00		
	CH: 12.30 to 42.30		1	30	0.2	0.1	0.60		
	CH: 42.30 to 72.30		1	30	0.2	0.1	0.60		
	CH: 72.30 to 102.30		1	30	0.2	0.1	0.60		
	CH: 102.30 to 132.30		1	30	0.2	0.1	0.60		
	CH: 132.30 to 150.8		1	12.3	0.2	0.1	0.25		
	CH: 150.8 to 153.00		0	2.2	0	0	0.00		
	CH: 153.00 to 183.00		1	30	0.2	0.1	0.60		
	CH 183.00 to 213.00		1	30	0.2	0.1	0.60		
	CH: 213.00 to 243.00		1	30	0.2	0.1	0.60		
	CH: 243.00 to 273.00		1	30	0.2	0.1	0.60		
	CH: 273.00 to 303.00		1	30	0.2	0.1	0.60		
	CH: 303.00 to 333.00		1	30	0.2	0.1	0.60		
	CH: 333.00 to 363.00		1	30	0.2	0.1	0.60		
	CH: 363.00 to 393.00		1	30	0.2	0.1	0.60		
	CH: 393.00 to 423.00.		1	30	0.2	0.1	0.60		
	CH: 423.00to 453.00		1	30	0.2	0.1	0.60		
	CH: 453.00to 483.00		1	30	0.2	0.1	0.60		
	CH: 483.00 to 513.00		1	30	0.2	0.1	0.60		
	CH:513.00to 515.30		0	2.3	0	0	0.00		
	CH: 515.30 to 535.00		1	19.7	0.2	0.1	0.39		
	CH: 535.00 to 543.40		0	8.4	0	0	0.00		
	CH: 543.40 to 570.10		1	26.7	0.2	0.1	0.53		
	CH: 570.10 to 572.60		0	2.5	0	0	0.00		
	CH: 572.60 to 602.30		1	30	0.2	0.1	0.60		
	Deduct for Shounder Drains	(57*.2)	-1	11.4	0.2	0.1	-0.23		
	Main Road Median								
	CH: 00.00 to 30.00		2	30	0.2	0.1	1.20		
	CH: 30.00 to 60.000		2	30	0.2	0.1	1.20		
	CH: 60.00to 88.00		2	28	0.2	0.1	1.12		
	First Left LHS Kerb								
	CH: 00.00 to 30.00		1	30	0.2	0.1	0.60		
	CH: 30.00 to 60.000		1	30	0.2	0.1	0.60		
	CH: 60.00to 68.50		1	8.5	0.2	0.1	0.17		
	First Left RHS Kerb								
	CH: 00.00 to 30.00		1	30	0.2	0.1	0.60		
	CH: 30.00 to 60.000		1	30	0.2	0.1	0.60		

	CH: 60.00to 73.30		1	13.3	0.2	0.1	0.27		
	First Left Median								
	CH: 00.00 to 30.00		2	30	0.2	0.1	1.20		
	CH: 30.00 to 54.60		2	24.6	0.2	0.1	0.98		
	Second Left LHS Kerb								
	CH: 00.00 to 30.00		1	30	0.2	0.1	0.60		
	CH: 30.00 to 45.70		1	15.7	0.2	0.1	0.31		
	CH: 45.70 to 51.60		0	5.9	0	0	0.00		
	CH: 51.60 to 70.80		1	19.2	0.2	0.1	0.38		
	CH: 70.80 to 74.50		0	3.7	0	0	0.00		
	CH: 74.50 to 94.00		1	19.5	0.2	0.1	0.39		
	Second Left RHS Kerb								
	CH: 00.00 to 18.70		1	18.7	0.2	0.1	0.37		
	CH: 18.70 to 44.50		0	25.8	0	0	0.00		
	CH: 44.50 to 55.50		1	11	0.2	0.1	0.22		
	CH: 55.50 to 62.00		0	6.45	0	0	0.00		
	CH: 62.0 to 71.00		1	9	0.2	0.1	0.18		
	CH: 71.00 to 76.30		0	5.3	0	0	0.00		
	CH: 76.30 to 96.60		1	20.3	0.2	0.1	0.41		
	Concrete Road 1 LHS								
	CH: 00.00 to 30.00		1	30	0.2	0.1	0.60		
	CH: 30.00 to 60.000		1	30	0.2	0.1	0.60		
	CH: 60.00to 90.00		1	30	0.2	0.1	0.60		
	CH: 90.00 to 109.5		1	19.5	0.2	0.1	0.39		
	Deduct for Shoulder Drain	(7*.4)	-1	2.8	0.2	0.1	-0.06		
	Concrete Road 1 RHS								
	CH: 00.00 to 30.00		1	30	0.2	0.1	0.60		
	CH: 30.00 to 60.000		1	30	0.2	0.1	0.60		
	CH: 60.00to 90.00		1	30	0.2	0.1	0.60		
	CH: 90.00 to 118.6		1	28.6	0.2	0.1	0.57		
	Deduct for Shoulder Drain	(9*.4)	-1	3.6	0.2	0.1	-0.07		
	Concrete Road 2 LHS								
	CH: 00.00 to 10.00		1	10	0.2	0.1	0.20		
	CH: 10.00 to 11.00		0	1	0	0	0.00		
	CH: 11.00 to 15.70		1	4.7	0.2	0.1	0.09		
	CH: 15.70 to 16.80		0	1.1	0	0	0.00		
	CH: 16.80 to 24.90		1	8.1	0.2	0.1	0.16		
	CH: 24.90 to 25.70		0	0.8	0	0	0.00		
	CH: 25.70 to 27.70		1	2	0.2	0.1	0.04		
	CH: 27.70 to 34.30		0	6.6	0	0	0.00		
	CH: 34.30 to 45.80		1	11.5	0.2	0.1	0.23		
	CH: 45.80 to 46.80		0	1	0	0	0.00		
	CH: 46.80 to 69.90		1	23.1	0.2	0.1	0.46		
	CH: 69.90 to 77.70		0	7.8	0	0	0.00		
	CH: 77.70to 92.70		1	15	0.2	0.1	0.30		
	Concrete Road 2 RHS								
	CH: 00.00 to 30.00		1	30	0.2	0.1	0.60		
	CH: 30.00 to 60.000		1	30	0.2	0.1	0.60		
	CH: 60.00to 90.00		1	30	0.2	0.1	0.60		
	CH: 90.00 to 91.80		1	1.8	0.2	0.1	0.04		
	Deduct Opening		-1	1.5	0.2	0.1	-0.03		

		CUM					40.77	6031.81	245917.00
5	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Approved Rate	453.89							
		Nos							
	Main road LHS								
	CH: 00.00 to 30.00		1	30			30.00		
	CH: 30.00 to 60.000		1	30			30.00		
	CH: 60.00to 90.00		1	30			30.00		
	CH: 90.00 to 120.00		1	30			30.00		
	CH: 120.00 to 150.00		1	30			30.00		
	CH: 150.00 to 180.00		1	30			30.00		
	CH: 180.00 to 210.00		1	30			30.00		
	CH: 210.00 to 240.00		1	30			30.00		
	CH: 240.00 to 245.10		1	5.1			5.10		
	CH: 245.10 to 250.40		0	5.3			0.00		
	CH: 250.4 to 275.20		1	24.8			24.80		
	CH: 275.2 to 280.60		0	5.4			0.00		
	CH: 280.6 to 298.60		1	18			18.00		
	CH: 298.6 to 309.50		0	10.9			0.00		
	CH: 309.5 to 339.50		1	30			30.00		
	CH: 339.5to 348.00		1	8.6			8.60		
	CH: 348.00 to 349.30		0	1.3			0.00		
	CH: 349.30 to 379.30		1	30			30.00		
	CH: 379.30 to 405.00		1	25.7			25.70		
	CH: 405.00to 415.50		0	10.5			0.00		
	CH: 415.5 to 444.30		1	28.8			28.80		
	CH: 444.3 to 453.90		0	9.6			0.00		
	CH: 453.90 to 483.90		1	30			30.00		
	CH: 483.9 to 489.40		1	5.5			5.50		
	CH: 489.4 to 494.50		0	5.1			0.00		
	CH: 494.5 to 512.50		1	18.1			18.10		
	CH: 512.5 to 520.10		0	7.6			0.00		
	CH: 520.1 to 550.10		1	30			30.00		
	CH: 550.1 to 560.10		1	10			10.00		
	CH: 560.1to 565.70		0	15.6			0.00		
	CH: 565.7 to 584.6		1	18.9			18.90		
	Deduct for Shounder Drains	(48*.2)	-1	9.6			-9.60		
	Main road RHS								
	CH: 00.00 to 10.7		1	10.5			10.50		
	CH: 10.70 to 12.30		0	1.6			0.00		
	CH: 12.30 to 42.30		1	30			30.00		
	CH: 42.30 to 72.30		1	30			30.00		
	CH: 72.30 to 102.30		1	30			30.00		
	CH: 102.30 to 132.30		1	30			30.00		
	CH: 132.30 to 150.8		1	12.3			12.30		
	CH: 150.8 to 153.00		0	2.2			0.00		
	CH: 153.00 to 183.00		1	30			30.00		
	CH 183.00 to 213.00		1	30			30.00		
	CH: 213.00 to 243.00		1	30			30.00		

CH: 243.00 to 273.00			1	30			30.00		
CH: 273.00 to 303.00			1	30			30.00		
CH: 303.00 to 333.00			1	30			30.00		
CH: 333.00 to 363.00			1	30			30.00		
CH: 363.00 to 393.00			1	30			30.00		
CH: 393.00 to 423.00.			1	30			30.00		
CH: 423.00to 453.00			1	30			30.00		
CH: 453.00to 483.00			1	30			30.00		
CH: 483.00 to 513.00			1	30			30.00		
CH:513.00to 515.30			0	2.3			0.00		
CH: 515.30 to 535.00			1	19.7			19.70		
CH: 535.00 to 543.40			0	8.4			0.00		
CH: 543.40 to 570.10			1	26.7			26.70		
CH: 570.10 to 572.60			0	2.5			0.00		
CH: 572.60 to 602.30			1	30			30.00		
Deduct for Shounder Drains		(57*.2)	-1	11.4			-11.40		
Main Road Median									
CH: 00.00 to 30.00			2	30			60.00		
CH: 30.00 to 60.000			2	30			60.00		
CH: 60.00to 88.00			2	28			56.00		
First Left LHS Kerb									
CH: 00.00 to 30.00			1	30			30.00		
CH: 30.00 to 60.000			1	30			30.00		
CH: 60.00to 68.50			1	8.5			8.50		
First Left RHS Kerb									
CH: 00.00 to 30.00			1	30			30.00		
CH: 30.00 to 60.000			1	30			30.00		
CH: 60.00to 73.30			1	13.3			13.30		
First Left Median									
CH: 00.00 to 30.00			2	30			60.00		
CH: 30.00 to 54.60			2	24.6			49.20		
Second Left LHS Kerb									
CH: 00.00 to 30.00			1	30			30.00		
CH: 30.00 to 45.70			1	15.7			15.70		
CH: 45.70 to 51.60			0	5.9			0.00		
CH: 51.60 to 70.80			1	19.2			19.20		
CH: 70.80 to 74.50			0	3.7			0.00		
CH: 74.50 to 94.00			1	19.5			19.50		
Second Left RHS Kerb									
CH: 00.00 to 18.70			1	18.7			18.70		
CH: 18.70 to 44.50			0	25.8			0.00		
CH: 44.50 to 55.50			1	11			11.00		
CH: 55.50 to 62.00			0	6.45			0.00		
CH: 62.0 to 71.00			1	9			9.00		
CH: 71.00 to 76.30			0	5.3			0.00		
CH: 76.30 to 96.60			1	20.3			20.30		
Concrete Road 1 LHS									
CH: 00.00 to 30.00			1	30			30.00		
CH: 30.00 to 60.000			1	30			30.00		
CH: 60.00to 90.00			1	30			30.00		
CH: 90.00 to 109.5			1	19.5			19.50		

	Deduct for Shoulder Drain	(7*.4)	-1	2.8			-2.80		
	Concrete Road 1 RHS								
	CH: 00.00 to 30.00		1	30			30.00		
	CH: 30.00 to 60.000		1	30			30.00		
	CH: 60.00to 90.00		1	30			30.00		
	CH: 90.00 to 118.6		1	28.6			28.60		
	Deduct for Shoulder Drain	(9*.4)	-1	3.6			-3.60		
	Concrete Road 2 LHS								
	CH: 00.00 to 10.00		1	10			10.00		
	CH: 10.00 to 11.00		0	1			0.00		
	CH: 11.00 to 15.70		1	4.7			4.70		
	CH: 15.70 to 16.80		0	1.1			0.00		
	CH: 16.80 to 24.90		1	8.1			8.10		
	CH: 24.90 to 25.70		0	0.8			0.00		
	CH: 25.70 to 27.70		1	2			2.00		
	CH: 27.70 to 34.30		0	6.6			0.00		
	CH: 34.30 to 45.80		1	11.5			11.50		
	CH: 45.80 to 46.80		0	1			0.00		
	CH: 46.80 to 69.90		1	23.1			23.10		
	CH: 69.90 to 77.70		0	7.8			0.00		
	CH: 77.70to 92.70		1	15			15.00		
	Concrete Road 2 RHS								
	CH: 00.00 to 30.00		1	30			30.00		
	CH: 30.00 to 60.000		1	30			30.00		
	CH: 60.00to 90.00		1	30			30.00		
	CH: 90.00 to 91.80		1	1.8			1.80		
	Deduct Opening		-1	1.5			-1.50		
							2038.50		
		Nos					4530.00	453.89	2056121.7
6	**Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)**								
	Approved Rate	89.00							
		SQM							
	Main road LHS								
	CH: 00.00 to 30.00		1	30		0.35	10.50		
	CH: 30.00 to 60.000		1	30		0.35	10.50		
	CH: 60.00to 90.00		1	30		0.35	10.50		
	CH: 90.00 to 120.00		1	30		0.35	10.50		
	CH: 120.00 to 150.00		1	30		0.35	10.50		
	CH: 150.00 to 180.00		1	30		0.35	10.50		
	CH: 180.00 to 210.00		1	30		0.35	10.50		
	CH: 210.00 to 240.00		1	30		0.35	10.50		
	CH: 240.00 to 245.10		1	5.1		0.35	1.79		
	CH: 245.10 to 250.40		0	5.3		0.35	0.00		
	CH: 250.4 to 275.20		1	24.8		0.35	8.68		
	CH: 275.2 to 280.60		0	5.4		0.35	0.00		
	CH: 280.6 to 298.60		1	18		0.35	6.30		
	CH: 298.6 to 309.50		0	10.9		0.35	0.00		
	CH: 309.5 to 339.50		1	30		0.35	10.50		

CH: 339.5to 348.00								
CH: 348.00 to 349.30		1	8.6		0.35	3.01		
CH: 349.30 to 379.30		0	1.3		0.35	0.00		
CH: 379.30 to 405.00		1	30		0.35	10.50		
CH: 405.00to 415.50		1	25.7		0.35	9.00		
CH: 415.5 to 444.30		0	10.5		0.35	0.00		
CH: 444.3 to 453.90		1	28.8		0.35	10.08		
CH: 453.90 to 483.90		0	9.6		0.35	0.00		
CH: 483.9 to 489.40		1	30		0.35	10.50		
CH: 489.4 to 494.50		1	5.5		0.35	1.93		
CH: 494.5 to 512.50		0	5.1		0.35	0.00		
CH: 512.5 to 520.10		1	18.1		0.35	6.34		
CH: 520.1 to 550.10		0	7.6		0.35	0.00		
CH: 550.1 to 560.10		1	30		0.35	10.50		
CH: 560.1to 565.70		1	10		0.35	3.50		
CH: 565.7 to 584.6		0	15.6		0.35	0.00		
		1	18.9		0.35	6.62		
Deduct for Shounder Drains	(48*.2)	-1	9.6		0.35	-3.36		
Main road RHS								
CH: 00.00 to 10.7		1	10.5		0.35	3.68		
CH: 10.70 to 12.30		0	1.6		0.35	0.00		
CH: 12.30 to 42.30		1	30		0.35	10.50		
CH: 42.30 to 72.30		1	30		0.35	10.50		
CH: 72.30 to 102.30		1	30		0.35	10.50		
CH: 102.30 to 132.30		1	30		0.35	10.50		
CH: 132.30 to 150.8		1	12.3		0.35	4.31		
CH: 150.8 to 153.00		0	2.2		0.35	0.00		
CH: 153.00 to 183.00		1	30		0.35	10.50		
CH 183.00 to 213.00		1	30		0.35	10.50		
CH: 213.00 to 243.00		1	30		0.35	10.50		
CH: 243.00 to 273.00		1	30		0.35	10.50		
CH: 273.00 to 303.00		1	30		0.35	10.50		
CH: 303.00 to 333.00		1	30		0.35	10.50		
CH: 333.00 to 363.00		1	30		0.35	10.50		
CH: 363.00 to 393.00		1	30		0.35	10.50		
CH: 393.00 to 423.00		1	30		0.35	10.50		
CH: 423.00to 453.00		1	30		0.35	10.50		
CH: 453.00to 483.00		1	30		0.35	10.50		
CH: 483.00 to 513.00		0	2.3		0.35	0.00		
CH:513.00to 515.30		1	19.7		0.35	6.90		
CH: 515.30 to 535.00		0	8.4		0.35	0.00		
CH: 535.00 to 543.40		1	26.7		0.35	9.35		
CH: 543.40 to 570.10		0	2.5		0.35	0.00		
CH: 570.10 to 572.60		1	30		0.35	10.50		
CH: 572.60 to 602.30								
Deduct for Shounder Drains	(57*.2)	-1	11.4		0.35	-3.99		
Main Road Median								
CH: 00.00 to 30.00		2	30		0.35	21.00		
CH: 30.00 to 60.000		2	30		0.35	21.00		
CH: 60.00to 88.00		2	28		0.35	19.60		
First Left LHS Kerb								
CH: 00.00 to 30.00		1	30		0.35	10.50		
CH: 30.00 to 60.000		1	30		0.35	10.50		
CH: 60.00to 68.50		1	8.5		0.35	2.98		

First Left RHS Kerb								
CH: 00.00 to 30.00		1	30		0.35	10.50		
CH: 30.00 to 60.000		1	30		0.35	10.50		
CH: 60.00to 73.30		1	13.3		0.35	4.66		
First Left Median								
CH: 00.00 to 30.00		2	30		0.35	21.00		
CH: 30.00 to 54.60		2	24.6		0.35	17.22		
Second Left LHS Kerb								
CH: 00.00 to 30.00		1	30		0.35	10.50		
CH: 30.00 to 45.70		1	15.7		0.35	5.50		
CH: 45.70 to 51.60		0	5.9		0.35	0.00		
CH: 51.60 to 70.80		1	19.2		0.35	6.72		
CH: 70.80 to 74.50		0	3.7		0.35	0.00		
CH: 74.50 to 94.00		1	19.5		0.35	6.83		
Second Left RHS Kerb								
CH: 00.00 to 18.70		1	18.7		0.35	6.55		
CH: 18.70 to 44.50		0	25.8		0.35	0.00		
CH: 44.50 to 55.50		1	11		0.35	3.85		
CH: 55.50 to 62.00		0	6.45		0.35	0.00		
CH: 62.0 to 71.00		1	9		0.35	3.15		
CH: 71.00 to 76.30		0	5.3		0.35	0.00		
CH: 76.30 to 96.60		1	20.3		0.35	7.11		
Concrete Road 1 LHS								
CH: 00.00 to 30.00		1	30		0.35	10.50		
CH: 30.00 to 60.000		1	30		0.35	10.50		
CH: 60.00to 90.00		1	30		0.35	10.50		
CH: 90.00 to 109.5		1	19.5		0.35	6.83		
Deduct for Shoulder Drain	(7*.4)	-1	2.8		0.35	-0.98		
Concrete Road 1 RHS								
CH: 00.00 to 30.00		1	30		0.35	10.50		
CH: 30.00 to 60.000		1	30		0.35	10.50		
CH: 60.00to 90.00		1	30		0.35	10.50		
CH: 90.00 to 118.6		1	28.6		0.35	10.01		
Deduct for Shoulder Drain	(9*.4)	-1	3.6		0.35	-1.26		
Concrete Road 2 LHS								
CH: 00.00 to 10.00		1	10		0.35	3.50		
CH: 10.00 to 11.00		0	1		0.35	0.00		
CH: 11.00 to 15.70		1	4.7		0.35	1.65		
CH: 15.70 to 16.80		0	1.1		0.35	0.00		
CH: 16.80 to 24.90		1	8.1		0.35	2.84		
CH: 24.90 to 25.70		0	0.8		0.35	0.00		
CH: 25.70 to 27.70		1	2		0.35	0.70		
CH: 27.70 to 34.30		0	6.6		0.35	0.00		
CH: 34.30 to 45.80		1	11.5		0.35	4.03		
CH: 45.80 to 46.80		0	1		0.35	0.00		
CH: 46.80 to 69.90		1	23.1		0.35	8.09		
CH: 69.90 to 77.70		0	7.8		0.35	0.00		
CH: 77.70to 92.70		1	15		0.35	5.25		
Concrete Road 2 RHS								
CH: 00.00 to 30.00		1	30		0.35	10.50		
CH: 30.00 to 60.000		1	30		0.35	10.50		
CH: 60.00to 90.00		1	30		0.35	10.50		

	CH: 90.00 to 91.80								
	Deduct Opening		1	1.8		0.35	0.63		
			-1	1.5		0.35	-0.53		
							713.48	89.00	63499.28
7	KSRRB M300-53. **Construction of embankment** with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. MORTH Specification No. 305(1 No-19.60,P No-147 of PWD BCSR 2018-19)								
	Approved Rate	**361.55**							
		CUM							
	Main Road LHS								
	CH: 00.00 to 30.00		1	30	0.5	0.1	1.50		
	CH: 30.00 to 60.000		1	30	0.5	0.1	1.50		
	CH: 60.00to 90.00		1	30	0.5	0.1	1.50		
	CH: 90.00 to 120.00		1	30	0.5	0.1	1.50		
	CH: 120.00 to 150.00		1	30	0.5	0.1	1.50		
	CH: 150.00 to 180.00		1	30	0.5	0.1	1.50		
	CH: 180.00 to 210.00		1	30	0.5	0.1	1.50		
	CH: 210.00 to 240.00		1	30	0.5	0.1	1.50		
	CH: 240.00 to 270.00		1	30	0.5	0.1	1.50		
	CH: 270.00 to 300.00		1	30	0.5	0.1	1.50		
	CH: 300.00 to 330.00		1	30	0.5	0.1	1.50		
	CH: 330.00 to 360.00		1	30	0.5	0.1	1.50		
	CH:360.00to 390.00		1	30	0.5	0.1	1.50		
	CH: 390.00 to 420.00		1	30	0.5	0.1	1.50		
	CH: 420.00 to 450.00		1	30	0.5	0.1	1.50		
	CH: 450.00to 480.00		1	30	0.5	0.1	1.50		
	CH: 480.00 to 510.00		1	30	0.5	0.1	1.50		
	CH: 510.00 to 540.00		1	30	0.5	0.1	1.50		
	CH: 540.00 to 570.00		1	30	0.5	0.1	1.50		
	CH: 00.00 to 30.00		1	30	0.5	0.1	1.50		
	CH: 30.00 to 60.000		1	30	0.5	0.1	1.50		
	CH: 60.00to 90.00		1	30	0.5	0.1	1.50		
	CH: 90.00 to 120.00		1	30	0.5	0.1	1.50		
	CH: 120.00 to 150.00		1	30	0.5	0.1	1.50		
	CH: 150.00 to 180.00		1	30	0.5	0.1	1.50		
	CH: 180.00 to 210.00		1	30	0.5	0.1	1.50		
	CH: 210.00 to 240.00		1	30	0.5	0.1	1.50		
	CH: 240.00 to 270.00		1	30	0.5	0.1	1.50		
	CH: 270.00 to 300.00		1	30	0.5	0.1	1.50		
	CH: 300.00 to 330.00		1	30	0.5	0.1	1.50		
	CH: 330.00 to 360.00		1	30	0.5	0.1	1.50		
	CH:360.00to 390.00		1	30	0.5	0.1	1.50		
	CH: 390.00 to 420.00		1	30	0.5	0.1	1.50		
	CH: 420.00 to 450.00		1	30	0.5	0.1	1.50		
	CH: 450.00to 480.00		1	30	0.5	0.1	1.50		
	CH: 480.00 to 510.00		1	30	0.5	0.1	1.50		
	CH: 510.00 to 540.00		1	30	0.5	0.1	1.50		
	CH: 540.00 to 570.00		1	30	0.5	0.1	1.50		
	CH: 570.00 to 600.00		1	30	0.5	0.1	1.50		

First Left LHS Drain Desilt								
CH: 00.00 to 30.00		1	30	0.5	0.1	1.50		
CH: 30.00 to 60.000		1	30	0.5	0.1	1.50		
CH: 60.00to 68.50		1	8.5	0.5	0.1	0.43		
First Left RHS Drain Desilt								
CH: 00.00 to 30.00		1	30	0.5	0.1	1.50		
CH: 30.00 to 60.000		1	30	0.5	0.1	1.50		
CH: 60.00to 73.30		1	13.3	0.5	0.1	0.67		
Second Left LHS Kerb								
CH: 00.00 to 30.00		1	30	0.5	0.1	1.50		
CH: 30.00 to 45.70		1	15.7	0.5	0.1	0.79		
CH: 45.70 to 51.60		0	5.9	0.5	0.1	0.00		
CH: 51.60 to 70.80		1	19.2	0.5	0.1	0.96		
CH: 70.80 to 74.50		0	3.7	0.5	0.1	0.00		
CH: 74.50 to 94.00		1	19.5	0.5	0.1	0.98		
Second Left RHS Kerb								
CH: 00.00 to 18.70		1	18.7	0.5	0.1	0.94		
CH: 18.70 to 44.50		0	25.8	0.5	0.1	0.00		
CH: 44.50 to 55.50		1	11	0.5	0.1	0.55		
CH: 55.50 to 62.00		0	6.45	0.5	0.1	0.00		
CH: 62.0 to 71.00		1	9	0.5	0.1	0.45		
CH: 71.00 to 76.30		0	5.3	0.5	0.1	0.00		
CH: 76.30 to 96.60		1	20.3	0.5	0.1	1.02		
						72.76	361.55	26307.00
	CUM							

8	KSRRB M300-14. **Excavation for roadwork in all types of soil by mechanical means including** cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
	Approved Rate	72.48							
	FOR CC Roads	CUM							
	Concretre Road 1								
	CH: 00.00 to 30.00	(5+5/2)	1	30	5	0.25	37.50		
	CH: 30.00 to 60.000	(5+5/2)	1	30	5	0.25	37.50		
	CH: 60.00to 90.00	(5+5/2)	1	30	5	0.25	37.50		
	CH: 90 to 111.5	(5+5/2)	1	21.5	5	0.3	32.25		
	CH: 111.5 to 118.6	(4.5+4/2)	1	7.1	4.25	0.3	9.05		
	Concretre Road 2								
	CH: 00.00 to 30.00	(10+10/2)	1	30	10	0.25	75.00		
	CH: 30.00 to 60.000	(10+9.8/2)	1	30	9.9	0.25	74.25		
	CH: 60.00to 90.00	(9.8+10/2)	1	30	9.9	0.25	74.25		
	Entrance Triangle Portion		0.5	5	4.1	0.25	2.56		
	In front of Building		1	25.4	12.1	0.2	61.47		
			1	20.4	19.2	0.2	78.34		
	Around Vehicle Maintainance Ramp		1	7.5	12.6	0.2	18.90		
			1	13.3	23.1	0.2	61.45		

	Deductions								
	Ramp								
	Culvert		-1	3.8	4.9	0.2	-3.72		
	Tree		-1	4.4	1.2	0.2	-1.06		
	STP area		-1	1	1.2	0.2	-0.24		
			-1	6.4	6.4	0.2	-8.19		
	Ramp Room & Tank area		-1	2.9	4	0.2	-2.32		
			-1	5.9	2.6	0.2	-3.07		
		CUM					581.42	72.48	42141.00
9	KSRRB M600-1 Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1,P No-174)								
	Approved Rate	3875.33							
	FOR CC Roads	CUM							
	Concretre Road 1								
	CH: 00.00 to 30.00	(5+5/2)	1	30	5	0.15	22.50		
	CH: 30.00 to 60.000	(5+5/2)	1	30	5	0.15	22.50		
	CH: 60.00to 90.00	(5+5/2)	1	30	5	0.15	22.50		
	CH: 90 to 111.5	(5+5/2)	1	21.5	5	0.15	16.13		
	CH: 111.5 to 118.6	(4.5+4/2)	1	7.1	4.25	0.1	3.02		
	Concretre Road 2								
	CH: 00.00 to 30.00	(10+10/2)	1	30	10	0.15	45.00		
	CH: 30.00 to 60.000	(10+9.8/2)	1	30	9.9	0.15	44.55		
	CH: 60.00to 90.00	(9.8+10/2)	1	30	9.9	0.15	44.55		
	Entrance Triangle Portion		0.5	5	4.1	0.1	1.03		
	In front of Building		1	25.4	12.1	0.1	30.73		
			1	20.4	19.2	0.1	39.17		
	Around Vehicle Maintainance Ramp		1	7.5	12.6	0.15	14.18		
			1	13.3	23.1	0.15	46.08		
	Deductions								
	Ramp		-1	3.8	4.9	0.15	-2.79		
	Culvert		-1	4.4	1.2	0.15	-0.79		
	Tree		-1	1	1.2	0.15	-0.18		
	STP area		-1	6.4	6.4	0.15	-6.14		
			-1	2.9	4	0.15	-1.74		
	Ramp Room & Tank area		-1	5.9	2.6	0.15	-2.30		
		CUM					337.98	3875.33	1309781.00

10	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to(P.No-176,I No-22.6.1)								
	Approved Rate	5314.12							
	FOR CC Roads	CUM							
	Concretre Road 1								
	CH: 00.00 to 30.00	(5+5/2)	1	30	5	0.15	22.50		
	CH: 30.00 to 60.000	(5+5/2)	1	30	5	0.15	22.50		
	CH: 60.00to 90.00	(5+5/2)	1	30	5	0.15	22.50		
	CH: 90 to 111.5	(5+5/2)	1	21.5	5	0.15	16.13		
	CH: 111.5 to 118.6	(4.5+4/2)	1	7.1	4.25	0.1	3.02		
	Concretre Road 2								
	CH: 00.00 to 30.00	(10+10/2)	1	30	10	0.15	45.00		
	CH: 30.00 to 60.000	(10+9.8/2)	1	30	9.9	0.15	44.55		
	CH: 60.00to 90.00	(9.8+10/2)	1	30	9.9	0.15	44.55		
	Entrance Triangle Portion		0.5	5	4.1	0.1	1.03		
	In front of Building		1	25.4	12.1	0.1	30.73		
			1	20.4	19.2	0.1	39.17		
	Around Vehicle Maintainance Ramp		1	7.5	12.6	0.15	14.18		
			1	13.3	23.1	0.15	46.08		
	Deductions								
	Ramp		-1	3.8	4.9	0.15	-2.79		
	Culvert		-1	4.4	1.2	0.15	-0.79		
	Tree		-1	1	1.2	0.15	-0.18		
	STP area		-1	6.4	6.4	0.15	-6.14		
			-1	2.9	4	0.15	-1.74		
	Ramp Room & Tank area		-1	5.9	2.6	0.15	-2.30		
							337.98	5314.12	1796061.00
		CUM							
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Approved Rate	2100.34							
		CUM							
	For Asphalting, Main Road								
	CH: 00.00 to 8.10	(7.9+7.9/2)	1	8.1	7.9	0.15	9.60		
	CH: 8.10 to 15.40	(7.0+7.0/2)	1	7.3	7	0.15	7.67		

	CH:15.40 to 19.80	(5.50+5.50/2)	1	4.4	5.5	0.15	3.63		
	CH: 19.80 to 49.80	(7.25+7.25/2)	1	30	7.25	0.15	32.63		
	CH:49.80 to 63.80	(7.25+7.25/2)	1	14	7.25	0.15	15.23		
	CH: 63.80 to 74.30	(7.25+11.9/2)	1	10.5	9.6	0.15	15.12		
	CH: 74.30 to 104.30	(11.90+12.30/2)	1	30	12.1	0.15	54.45		
	CH: 104.30 to 134.3	(12.30+12.40/2)	1	30	12.35	0.15	55.58		
	CH: 134.30 to 164.30	(12.40+12.40/2)	1	30	12.4	0.15	55.80		
	CH: 164.30 to 194.30	(12.40 +12.40/2)	1	30	12.4	0.15	55.80		
	CH: 194.30 to 224.30	(12.40+12.25/2)	1	30	12.33	0.15	55.49		
	CH: 224.30 to 254.30	(12.25+12.40/2)	1	30	12.33	0.15	55.49		
	CH: 254.30 to 284.30	(12.40+12.40/2)	1	30	12.4	0.15	55.80		
	CH: 284.30 to 314.30	(12.4+12.40/2)	1	30	12.4	0.15	55.80		
	CH: 314.30 to 344.30	(12.40+12.40/2)	1	30	12.4	0.15	55.80		
	CH: 344.30 to 370.80	(12.40 +13.5/2)	1	26.5	12.95	0.15	51.48		
	Deduct								
	Gate Column		-2	0.6	0.6	0.15	-0.11		
	Man Hole		-1	1.7	1.7	0.15	-0.43		
	Main Road Median LHS								
	CH: 00.00 to 30.00	(6.2+5.5/2)	1	30	5.85	0.15	26.33		
	CH: 30.00 to 60.000	(5.5+5.9/2)	1	30	5.7	0.15	25.65		
	CH: 60.00to 81.50	(5.9+6.5/2)	1	21.5	6.2	0.15	20.00		
	Main Road Median RHS								
	CH: 00.00 to 30.00	(6.1+5.3/2)	1	30	5.7	0.15	25.65		
	CH: 30.00 to 60.000	(5.3+5.9/2)	1	30	5.6	0.15	25.20		
	CH: 60.00to 87.50	(5.9+5.8/2)	1	27.5	5.85	0.15	24.13		
	Main Road After Median								
	CH: 00.00 to 30.00	(16.3+13.8/2)	1	30	15.05	0.15	67.73		
	CH: 30.00 to 60.000	(13.8+12.9/2)	1	30	13.35	0.15	60.08		
	CH: 60.00to 90.00	(12.9+12.5/2)	1	30	12.7	0.15	57.15		
	CH: 90.00 to 120.00	(12.5+12.3/2)	1	30	12.4	0.15	55.80		
	CH: 120.00 to 150.00	(12.3+12.5/2)	1	30	12.4	0.15	55.80		
	CH: 150.00 to 179.00	(12.5+12.5/2)	1	29	12.5	0.15	54.38		
	Main Rod End Portion		1	18.3	15.4	0.15	42.27		
	Deduct Circle		-1	pi*r^2 (3.14* 6^2)* 15			-0.16		
	First Left Road LHS								

	CH: 00.00 to 30.00	(7.1+7.0/2)	1	30	7.05	0.15	31.73		
	CH: 30.00 to 54.000	(7.0+7.1/2)	1	24	7.05	0.15	25.38		
	First Left Road RHS								
	CH: 00.00 to 30.00	(7.0+7.0/2)	1	30	7	0.15	31.50		
	CH: 30.00 to 53.50	(7.0+7.3/2)	1	23.5	7.15	0.15	25.20		
	End Portion		1	17	8	0.15	20.40		
	Second Left Road								
	CH: 00.00 to 30.00	(6.8+6.8/2)	1	30	6.8	0.15	30.60		
	CH: 30.00 to 35.30	(6.8+6.9/2)	1	5.3	6.85	0.15	5.45		
		CUM					1345.04	2100.34	2825036.00
12	KSRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Approved Rate	27.81							
		SQM							
	For Asphalting, Main Road								
	CH: 00.00 to 8.10	(7.9+7.9/2)	1	8.1	7.9		63.99		
	CH: 8.10 to 15.40	(7.0+7.0/2)	1	7.3	7		51.10		
	CH:15.40 to 19.80	(5.50+5.50/2)	1	4.4	5.5		24.20		
	CH: 19.80 to 49.80	(7.25+7.25/2)	1	30	7.25		217.50		
	CH:49.80 to 63.80	(7.25+7.25/2)	1	14	7.25		101.50		
	CH: 63.80 to 74.30	**(7.25+11.9/2)**	1	10.5	9.6		100.80		
	CH: 74.30 to 104.30	(11.90+12.30/2)	1	30	12.1		363.00		
	CH: 104.30 to 134.3	(12.30+12.40/2)	1	30	12.35		370.50		
	CH: 134.30 to 164.30	(12.40+12.40/2)	1	30	12.4		372.00		
	CH: 164.30 to 194.30	(12.40 +12.40/2)	1	30	12.4		372.00		
	CH: 194.30 to 224.30	(12.40+12.25/2)	1	30	12.33		369.90		
	CH: 224.30 to 254.30	(12.25+12.40/2)	1	30	12.33		369.90		
	CH: 254.30 to 284.30	**(12.40+12.40/2)**	1	30	12.4		372.00		
	CH: 284.30 to 314.30	(12.4+12.40/2)	1	30	12.4		372.00		
	CH: 314.30 to 344.30	(12.40+12.40/2)	1	30	12.4		372.00		
	CH: 344.30 to 370.80	(12.40 +13.5/2)	1	26.5	12.95		343.18		
	Deduct								
	Gate Column		-2	0.6	0.6		-0.72		
	Man Hole		-1	1.7	1.7		-2.89		

Main Road Median LHS									
CH: 00.00 to 30.00	(6.2+5.5/2)	1	30	5.85		175.50		
CH: 30.00 to 60.000	(5.5+5.9/2)	1	30	5.7		171.00		
CH: 60.00to 81.50	(5.9+6.5/2)	1	21.5	6.2		133.30		
Main Road Median RHS								
CH: 00.00 to 30.00	(6.1+5.3/2)	1	30	5.7		171.00		
CH: 30.00 to 60.000	(5.3+5.9/2)	1	30	5.6		168.00		
CH: 60.00to 87.50	(5.9+5.8/2)	1	27.5	5.85		160.88		
Main Road After Median								
CH: 00.00 to 30.00	(16.3+13.8/2)	1	30	15.05		451.50		
CH: 30.00 to 60.000	(13.8+12.9/2)	1	30	13.35		400.50		
CH: 60.00to 90.00	(12.9+12.5/2)	1	30	12.7		381.00		
CH: 90.00 to 120.00	(12.5+12.3/2)	1	30	12.4		372.00		
CH: 120.00 to 150.00	(12.3+12.5/2)	1	30	12.4		372.00		
CH: 150.00 to 179.00	(12.5+12.5/2)	1	29	12.5		362.50		
Main Rod End Portion		1	18.3	15.4		281.82		
Deduct Circle		-1	pi*r^2 (3.14* 6^2)			-1 13		
First Left Road LHS								
CH: 00.00 to 30.00	(7.1+7.0/2)	1	30	7.05		211.50		
CH: 30.00 to 54.000	(7.0+7.1/2)	1	24	7.05		169.20		
First Left Road RHS								
CH: 00.00 to 30.00	(7.0+7.0/2)	1	30	7		210.00		
CH: 30.00 to 53.50	(7.0+7.3/2)	1	23.5	7.15		168.03		
End Portion	0	1	17	8		136.00		
Second Left Road								
CH: 00.00 to 30.00	(6.8+6.8/2)	1	30	6.8		204.00		
CH: 30.00 to 35.30	(6.8+6.9/2)	1	5.3	6.85		36.31		
	SQM					8966.85	27.81	249369.00
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
Approved Rate	13.35							
	SQM							

For Asphalting, Main Road								
CH: 00.00 to 8.10	(7.9+7.9/2)	1	8.1	7.9		63.99		
CH: 8.10 to 15.40	(7.0+7.0/2)	1	7.3	7		51.10		
CH:15.40 to 19.80	(5.50+5.50/2)	1	4.4	5.5		24.20		
CH: 19.80 to 49.80	(7.25+7.25/2)	1	30	7.25		217.50		
CH:49.80 to 63.80	(7.25+7.25/2)	1	14	7.25		101.50		
CH: 63.80 to 74.30	(7.25+11.9/2)	1	10.5	9.6		100.80		
CH: 74.30 to 104.30	(11.90+12.30/2)	1	30	12.1		363.00		
CH: 104.30 to 134.3	(12.30+12.40/2)	1	30	12.35		370.50		
CH: 134.30 to 164.30	(12.40+12.40/2)	1	30	12.4		372.00		
CH: 164.30 to 194.30	(12.40 +12.40/2)	1	30	12.4		372.00		
CH: 194.30 to 224.30	(12.40+12.25/2)	1	30	12.33		369.90		
CH: 224.30 to 254.30	(12.25+12.40/2)	1	30	12.33		369.90		
CH: 254.30 to 284.30	(12.40+12.40/2)	1	30	12.4		372.00		
CH: 284.30 to 314.30	(12.4+12.40/2)	1	30	12.4		372.00		
CH: 314.30 to 344.30	(12.40+12.40/2)	1	30	12.4		372.00		
CH: 344.30 to 370.80	(12.40 +13.5/2)	1	26.5	12.95		343.18		
Deduct								
Gate Column		-2	0.6	0.6		-0.72		
Man Hole		-1	1.7	1.7		-2.89		
Main Road Median LHS								
CH: 00.00 to 30.00	(6.2+5.5/2)	1	30	5.85		175.50		
CH: 30.00 to 60.000	(5.5+5.9/2)	1	30	5.7		171.00		
CH: 60.00to 81.50	(5.9+6.5/2)	1	21.5	6.2		133.30		
Main Road Median RHS								
CH: 00.00 to 30.00	(6.1+5.3/2)	1	30	5.7		171.00		
CH: 30.00 to 60.000	(5.3+5.9/2)	1	30	5.6		168.00		
CH: 60.00to 87.50	(5.9+5.8/2)	1	27.5	5.85		160.88		
Main Road After Median								
CH: 00.00 to 30.00	(16.3+13.8/2)	1	30	15.05		451.50		
CH: 30.00 to 60.000	(13.8+12.9/2)	1	30	13.35		400.50		

CH: 60.00to 90.00	(12.9+12.5/2)	1	30	12.7		381.00		
CH: 90.00 to 120.00	(12.5+12.3/2)	1	30	12.4		372.00		
CH: 120.00 to 150.00	(12.3+12.5/2)	1	30	12.4		372.00		
CH: 150.00 to 179.00	(12.5+12.5/2)	1	29	12.5		362.50		
Main Rod End Portion		1	18.3	15.4		281.82		
Deduct Circle		-1	pi*r^2 (3.14*.6^2)			-1.13		
First Left Road LHS								
CH: 00.00 to 30.00	(7.1+7.0/2)	1	30	7.05		211.50		
CH: 30.00 to 54.000	(7.0+7.1/2)	1	24	7.05		169.20		
First Left Road RHS								
CH: 00.00 to 30.00	(7.0+7.0/2)	1	30	7		210.00		
CH: 30.00 to 53.50	(7.0+7.3/2)	1	23.5	7.15		168.03		
End Portion	0	1	17	8		136.00		
Second Left Road								
CH: 00.00 to 30.00	(6.8+6.8/2)	1	30	6.8		204.00		
CH: 30.00 to 35.30	(6.8+6.9/2)	1	5.3	6.85		36.31		
	SQM					8966.85	13.35	119708.00

14 KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)

Approved Rate	6010.68								
	CUM								
For Asphalting, Main Road									
CH: 00.00 to 8.10	(7.9+7.9/2)	1	8.1	7.9	0.05	3.20		
CH: 8.10 to 15.40	(7.0+7.0/2)	1	7.3	7	0.05	2.56		
CH:15.40 to 19.80	(5.50+5.50/2)	1	4.4	5.5	0.05	1.21		
CH: 19.80 to 49.80	(7.25+7.25/2)	1	30	7.25	0.05	10.88		
CH:49.80 to 63.80	(7.25+7.25/2)	1	14	7.25	0.05	5.08		
CH: 63.80 to 74.30	(7.25+11.9/2)	1	10.5	9.6	0.05	5.04		
CH: 74.30 to 104.30	(11.90+12.30/2)	1	30	12.1	0.05	18.15		
CH: 104.30 to 134.3	(12.30+12.40/2)	1	30	12.35	0.05	18.53		

CH: 134.30 to 164.30	(12.40+12.40 /2)	1	30	12.4	0.05	18.60		
CH: 164.30 to 194.30	(12.40 +12.40/2)	1	30	12.4	0.05	18.60		
CH: 194.30 to 224.30	(12.40+12.25 /2)	1	30	12.33	0.05	18.50		
CH: 224.30 to 254.30	(12.25+12.40 /2)	1	30	12.33	0.05	18.50		
CH: 254.30 to 284.30	(12.40+12.40/ 2)	1	30	12.4	0.05	18.60		
CH: 284.30 to 314.30	(12.4+12.40/ 2)	1	30	12.4	0.05	18.60		
CH: 314.30 to 344.30	(12.40+12.40 /2)	1	30	12.4	0.05	18.60		
CH: 344.30 to 370.80	(12.40 +13.5/2)	1	26.5	12.95	0.05	17.16		
Deduct								
Gate Column		-2	0.6	0.6	0.05	-0.04		
Man Hole		-1	1.7	1.7	0.05	-0.14		
Main Road Median LHS								
CH: 00.00 to 30.00	(6.2+5.5/2)	1	30	5.85	0.05	8.78		
CH: 30.00 to 60.000	(5.5+5.9/2)	1	30	5.7	0.05	8.55		
CH: 60.00to 81.50	(5.9+6.5/2)	1	21.5	6.2	0.05	6.67		
Main Road Median RHS								
CH: 00.00 to 30.00	(6.1+5.3/2)	1	30	5.7	0.05	8.55		
CH: 30.00 to 60.000	(5.3+5.9/2)	1	30	5.6	0.05	8.40		
CH: 60.00to 87.50	(5.9+5.8/2)	1	27.5	5.85	0.05	8.04		
Main Road After Median								
CH: 00.00 to 30.00	(16.3+13.8/2)	1	30	15.05	0.05	22.58		
CH: 30.00 to 60.000	(13.8+12.9/2)	1	30	13.35	0.05	20.03		
CH: 60.00to 90.00	(12.9+12.5/2)	1	30	12.7	0.05	19.05		
CH: 90.00 to 120.00	(12.5+12.3/2)	1	30	12.4	0.05	18.60		
CH: 120.00 to 150.00	(12.3+12.5/2)	1	30	12.4	0.05	18.60		
CH: 150.00 to 179.00	(12.5+12.5/2)	1	29	12.5	0.05	18.13		
Main Rod End Portion		1	18.3	15.4	0.05	14.09		
Deduct Circle		-1	pi*r^2 (3.14*.6^2)		0.05	-0.06		
First Left Road LHS								
CH: 00.00 to 30.00	(7.1+7.0/2)	1	30	7.05	0.05	10.58		
CH: 30.00 to 54.000	(7.0+7.1/2)	1	24	7.05	0.05	8.46		
First Left Road RHS								
CH: 00.00 to 30.00	(7.0+7.0/2)	1	30	7	0.05	10.50		

	CH: 30.00 to 53.50	(7.0+7.3/2)	1	23.5	7.15	0.05	8.40		
	End Portion		1	17	8	0.05	6.80		
	Second Left Road								
	CH: 00.00 to 30.00	(6.8+6.8/2)	1	30	6.8	0.05	10.20		
	CH: 30.00 to 35.30	(6.8+6.9/2)	1	5.3	6.85	0.05	1.82		
		CUM					448.31	6010.68	2694844.00
15	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	Approved Rate	7096.45							
		CUM							
	For Asphalting, Main Road								
	CH: 00.00 to 8.10	(7.9+7.9/2)	1	8.1	7.9	0.03	1.92		
	CH: 8.10 to 15.40	(7.0+7.0/2)	1	7.3	7	0.03	1.53		
	CH:15.40 to 19.80	(5.50+5.50/2)	1	4.4	5.5	0.03	0.73		
	CH: 19.80 to 49.80	(7.25+7.25/2)	1	30	7.25	0.03	6.53		
	CH:49.80 to 63.80	(7.25+7.25/2)	1	14	7.25	0.03	3.05		
	CH: 63.80 to 74.30	(7.25+11.9/2)	1	10.5	9.6	0.03	3.02		
	CH: 74.30 to 104.30	(11.90+12.30/2)	1	30	12.1	0.03	10.89		
	CH: 104.30 to 134.3	(12.30+12.40/2)	1	30	12.35	0.03	11.12		
	CH: 134.30 to 164.30	(12.40+12.40/2)	1	30	12.4	0.03	11.16		
	CH: 164.30 to 194.30	(12.40+12.40/2)	1	30	12.4	0.03	11.16		
	CH: 194.30 to 224.30	(12.40+12.25/2)	1	30	12.33	0.03	11.10		
	CH: 224.30 to 254.30	(12.25+12.40/2)	1	30	12.33	0.03	11.10		
	CH: 254.30 to 284.30	(12.40+12.40/2)	1	30	12.4	0.03	11.16		
	CH: 284.30 to 314.30	(12.4+12.40/2)	1	30	12.4	0.03	11.16		
	CH: 314.30 to 344.30	(12.40+12.40/2)	1	30	12.4	0.03	11.16		
	CH: 344.30 to 370.80	(12.40+13.5/2)	1	26.5	12.95	0.03	10.30		
	Deduct								

Gate Column			-2	0.6	0.6	0.03	-0.02		
Man Hole			-1	1.7	1.7	0.03	-0.09		
Main Road Median LHS									
CH: 00.00 to 30.00	(6.2+5.5/2)		1	30	5.85	0.03	5.27		
CH: 30.00 to 60.000	(5.5+5.9/2)		1	30	5.7	0.03	5.13		
CH: 60.00to 81.50	(5.9+6.5/2)		1	21.5	6.2	0.03	4.00		
Main Road Median RHS									
CH: 00.00 to 30.00	(6.1+5.3/2)		1	30	5.7	0.03	5.13		
CH: 30.00 to 60.000	(5.3+5.9/2)		1	30	5.6	0.03	5.04		
CH: 60.00to 87.50	(5.9+5.8/2)		1	27.5	5.85	0.03	4.83		
Main Road After Median									
CH: 00.00 to 30.00	(16.3+13.8/2)		1	30	15.05	0.03	13.55		
CH: 30.00 to 60.000	(13.8+12.9/2)		1	30	13.35	0.03	12.02		
CH: 60.00to 90.00	(12.9+12.5/2)		1	30	12.7	0.03	11.43		
CH: 90.00 to 120.00	(12.5+12.3/2)		1	30	12.4	0.03	11.16		
CH: 120.00 to 150.00	(12.3+12.5/2)		1	30	12.4	0.03	11.16		
CH: 150.00 to 179.00	(12.5+12.5/2)		1	29	12.5	0.03	10.88		
Main Rod End Portion			1	18.3	15.4	0.03	8.45		
Deduct Circle			-1	pi*r^2 (3.14*.6^2)		0.03	-0.03		
First Left Road LHS									
CH: 00.00 to 30.00	(7.1+7.0/2)		1	30	7.05	0.03	6.35		
CH: 30.00 to 54.000	(7.0+7.1/2)		1	24	7.05	0.03	5.08		
First Left Road RHS									
CH: 00.00 to 30.00	(7.0+7.0/2)		1	30	7	0.03	6.30		
CH: 30.00 to 53.50	(7.0+7.3/2)		1	23.5	7.15	0.03	5.04		
End Portion			1	17	8	0.03	4.08		
Second Left Road									
CH: 00.00 to 30.00	(6.8+6.8/2)		1	30	6.8	0.03	6.12		
CH: 30.00 to 35.30	(6.8+6.9/2)		1	5.3	6.85	0.03	1.09		
	CUM						269.01	7096.45	1908985.00

16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Approved Rate	477.25							
	Main Road Full Length								
	CH: 00.00 to 30.00		2.5	30	0.1		7.50		
	CH: 30.00 to 60.000		2.5	30	0.1		7.50		
	CH: 60.00to 90.00		4	30	0.1		12.00		
	CH: 90.00 to 120.00		4	30	0.1		12.00		
	CH: 120.00 to 150.00		4	30	0.1		12.00		
	CH: 150.00 to 180.00		4	30	0.1		12.00		
	CH: 180.00 to 210.00		4	30	0.1		12.00		
	CH: 210.00 to 240.00		4	30	0.1		12.00		
	CH: 240.00 to 270.00		4	30	0.1		12.00		
	CH: 270.00 to 300.00		4	30	0.1		12.00		
	CH: 300.00 to 330.00		4	30	0.1		12.00		
	CH: 330.00 to 360.00		4	30	0.1		12.00		
	CH:360.00to 390.00		4	30	0.1		12.00		
	CH: 390.00 to 420.00		4	30	0.1		12.00		
	CH: 420.00 to 450.00		4	30	0.1		12.00		
	CH: 450.00to 480.00		4	30	0.1		12.00		
	CH: 480.00 to 510.00		4	30	0.1		12.00		
	CH: 510.00 to 540.00		4	30	0.1		12.00		
	CH: 540.00 to 570.00		4	30	0.1		12.00		
	CH: 570.00 to 600.00		4	30	0.1		12.00		
	Main Road Centre (Median Portion one side								
	CH: 370.00 to 455.00		2	85	0.1		17.00		
	First Left LHS								
	CH: 00.00 to 30.00		2.5	30	0.1		7.50		
	CH: 30.00 to 60.000		2.5	30	0.1		7.50		
	CH: 60.00to 68.50		2.5	8.5	0.1		2.13		
	First Left RHS								
	CH: 00.00 to 30.00		2.5	30	0.1		7.50		
	CH: 30.00 to 60.000		2.5	30	0.1		7.50		
	CH: 60.00to 73.30		2.5	13.3	0.1		3.33		
	Second Left								
	CH: 00.00 to 30.00		2.5	30	0.1		7.50		
	CH: 30.00 to 45.70		2.5	15.7	0.1		3.93		
	CH: 45.70 to 51.60		2.5	5.9	0.1		1.48		
	CH: 51.60 to 70.80		2.5	19.2	0.1		4.80		
	CH: 70.80 to 74.50		2.5	3.7	0.1		0.93		
	CH: 74.50 to 94.00		2.5	19.5	0.1		4.88		
		CUM					306.95	477.25	146492.00

17	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading.								
	Approved Rate	13092.51							
		Sqm							
	Main Gate		1	4.7	2.3		10.81		
	Small Gate		1	1.25	2.2		2.75		
		Sqm			Present Qty		13.56	13092.51	177535.00
							Total Construction Cost		13920241.28

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Vnk. Zn)
Yelahanka, Bangalore

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Technical Sanction
Accorded For RS 13920241.28
Head of A/C 3739
CER NO :..66..... Dt:13.01.2021

TA

CE (YNK)